



Atty. Dkt. No. 032026-0772

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Denes et al.
Title: PLASMA-ENHANCED
FUNCTIONALIZATION OF
INORGANIC OXIDE SURFACES
Appl. No.: 10/809,318
Filing Date: 03/24/2004
Examiner: Unknown
Art Unit: 1645

<p>CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p><u>Michelle Manning</u> (Printed Name)</p> <p><u>[Signature]</u> (Signature)</p> <p><u>August 12, 2004</u> (Date of Deposit)</p>
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-2350. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-2350.

Respectfully submitted,

Date 08/12/04

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Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0772	SERIAL NO. 10/809,318
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		FILING DATE 03/24/2004	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		5,080,924	1/14/92	Kamel et al			
		5,132,108	7/21/92	Narayanan et al			
		5,306,768	4/26/94	Hsu et al			
		5,336,518	8/9/94	Narayanan et al			
		6,022,902	2/8/00	Koontz			
		6,106,653	8/22/00	Polizzotti et al			
		6,159,531	12/12/00	Dang et al.			
		6,306,506	10/23/01	Timmons et al.			
		6,402,899	6/11/02	Denes et al			
		6,528,264	3/4/03	Pal et al.			
		6,602,692	8/5/03	Glusenkamp et al			
		2003/0163198 A1	8/28/03	Morra et al.			
		6,630,358	10/7/03	Wagner et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
		EP 0874242 A1	10/28/1998	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Rasmussen, et al., "Covalent Immobilization of DNA into Polystyrene Microwells: The Molecules are only Bound at the 5' End," <i>Analytical Biochemistry</i> , 198 , pp. 138-142, 1991. Published by Academic Press, Inc. 21
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		Parinov, et al., "DNA Sequencing by Hybridization to Microchip Octa- and Decanucleotides Extended by Stacked Pentanucleotides," <i>Nucleic Acids Research</i> , 24 , No. 15, pp. 2998-3004, 1996. Published by Oxford University Press.
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		Guschin, et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," <i>Analytical Biochemistry</i> , 250 , pp. 203-211, 1997. Published by Academic Press.
		Fotin, et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," <i>Nucleic Acids Research</i> , 26 , No. 6, pp. 1515-1521, 1998. Published by Oxford University Press.
		Proudnikov, et al., "Immobilization of DNA in Polyacrylamide Gel for the Manufacture of DNA and DNA-Oligonucleotide Microchips," <i>Analytical Biochemistry</i> 259 , pp. 34-41, 1998. Published by Academic Press.

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		Podyminogin, et al., "Attachment of Benzaldehyde-modified Oligodeoxynucleotide Probes to Semicarbazide-Coated Glass," <i>Nucleic Acids Research</i> , Vol. 29 , No. 24 , pp. 5090-5098, 2001. Published by Oxford University Press.
		Alvarez-Blanco, et al., "A Novel Plasma-enhanced Way for Surface-functionalization of Polymeric Substrates," <i>Polymer Bulletin</i> , 47 , pp. 329-336, 2001. Published by Springer-Verlag.
		Ivanova, et al., "Feasibility of Using Carboxylic-rich Polymeric Surfaces for the Covalent Binding of Oligonucleotides for microPCR Applications," <i>Smart Mater. Struct.</i> , 11 , pp. 783-791, 2002. Published by Institute of Physics Publishing.
		Metzger, et al., "Signal to Noise Comparison Accelr8 OptArray vs. The Leading Polymer and Silane Microarray Slide Chemistries," <i>Technical Bulletin</i> , No. TB0400, 2002.
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		Liu, et al., "DNA Probe Attachment on Plastic Surfaces and Microfluidic Hybridization Array Channel Devices with Sample Oscillation," <i>Analytical Biochemistry</i> 317 , pp. 76-84, 2003. Published by Academic Press.
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		"Motorola and Packard to produce 'biochips'" http://www4.nando.net/newsroom/ntrn/health/062998/health7_12937_noframes.html . Website article printed on 1/2/00.
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		http://www.surmodics.com/pageDetail.aspx?pagelD=10&menuID=10 – "Biomolecule Immobilization." Website article printed on 2/19/2004.
		http://www.surmodics.com/pageDetail.aspx?pagelD=7&menuID=7 – "Photolink Manufacturing Process." Website article printed on 2/19/2004.
		http://www.vwrcanlab.com – "A Specific Surface for a Specific Application." Website.
EXAMINER		DATE CONSIDERED
<p>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.</p>		